

General Instructions:

1. Please read the instructions carefully
2. This Question Paper is divided into 03 sections, viz., Section A, Section B and Section C.
3. Section A is of 05 marks and has 06 questions on Employability Skills.
4. Section B is of 20 marks and has 25 questions on Subject specific Skills.
5. Section C is of 05 marks and has 07 competency-based questions.
6. Do as per the instructions given in the respective sections.
7. Marks allotted are mentioned against each section/question.
8. All questions must be attempted in the correct order

SECTION-A

Answer any 5 questions out of the given 6 questions on Employability Skills (1 x 5 = 5 marks)

- 1) You work at the front desk of a telecom company. A customer approaches you while you are working. The customer has a query regarding a bill. What would you do?
 - A. Not pay attention to the customer
 - B. Keep the work aside and help the customer
 - C. Continue doing your work while talking inattentively to the customer
 - D. (d) Ask the customer to talk to someone else
- 2) The word 'Communication' comes from the latin word communicare, meaning to _____.
 - A. Share
 - B. Taken
 - C. Given
 - D. Simple
- 3) Which of the following is an example of oral communication?
 - A. Newspaper
 - B. Letters
 - C. Phone call
 - D. Email
- 4) What is the shortcut key to insert current date in a cell using LibreOffice Spreadsheet?
 - A. CTRL + ;
 - B. CTRL + T
 - C. CTRL + D
 - D. CTRL + '
- 5) Ravi has feelings of emptiness, abandonment and suicide. What type of personality disorder is this?
 - A. Borderline
 - B. Dependent
 - C. Avoidant
 - D. Obsessive
- 6) The contents of cell A1, A2, A3, and A4 in a Spreadsheet application are 10, 15, 20, 25 respectively. If the formula =COUNT(A1:A4) is entered in cell A5, _____ value will be displayed in A5.
 - A. 70
 - B. 4
 - C. 45
 - D. d. 65

SECTION - B

Answer any 20 questions out of the given 25 questions (1 x 20 = 20 marks)

- 7) Internet transactions are susceptible to frauds. Creating a strong password is vital. A strong password has:
- 6-8 Alphanumeric characters
 - Special symbols
 - Only numbers
 - Both a and b
- 8) Which of the SQL statements is correct?
- SELECT Username AND Password FROM Users
 - SELECT Username, Password FROM Users
 - SELECT Username, Password WHERE Username = 'user1'
 - None of these
- 9) Which SQL keyword is used to retrieve only unique values?
- DISTINCTIVE
 - UNIQUE
 - DISTINCT
 - DIFFERENT
- 10) Online shopping is an e-commerce application where the customer can purchase goods over the Internet. There are several websites where the customer can go for online shopping. Select from the options given below which of the following is not an online shopping website:
- snapdeal.com
 - mynta.com
 - coursera.org
 - infibeam.com
- 11) The string function that returns the index of the first occurrence of substring is _____.
- INSERT()
 - INSTR()
 - INSTRING()
 - INFSTR()
- 12) Predict the output
SELECT RIGHT(CONCAT('TECHNOLOGY','INFORMATION'),5);
- LOGY
 - MATIO
 - ATION
 - None of these
- 13) Garvit wants to change the default value of DISCOUNT in the CUSTOMER table from 10 to 15. Select the most appropriate command to do the same from the following options:
- ALTER TABLE CUSTOMER ALTER DISCOUNT SET DEFAULT 15;
 - ALTER TABLE CUSTOMER DELETE DISCOUNT SET DEFAULT 15;
 - ALTER TABLE CUSTOMER MODIFY DISCOUNT SET DEFAULT 15;
 - ALTER TABLE CUSTOMER CHANGE DISCOUNT SET DEFAULT 15;
- 14) Consider a table: COACHING having fields CITY_NAME, ENROLMENTS. Shikhar wants to display the data of the above table in ascending order of enrolments. Choose the correct query/queries from the following:
- Select * from coaching order by enrolments asc;
 - Select * from coaching order by enrolments desc;
 - Select * from coaching order by enrolments;
 - Select * from coaching order by enrolments ascending;
- Select the correct option:
- Only (i) is correct
 - Both (i) and (ii) are correct
 - Both (i) and (iii) are correct
 - Only (iv) is correct
- 15) Predict the output
SELECT TRUNCATE(563.345,-2);

- A. 600
 - B. 500
 - C. 560
 - D. None of these
- 16) Which of the following is not an example of E-Governance?
- A. To file property tax
 - B. To apply for renewal of Passport
 - C. To start an online coding course for 3 months
 - D. To get Voters ID card issued
- 17) An electronic copy of your paid ticket is shown on the screen. Also, your ticket will be _____ that you have specified in the registration form.
- A. Email
 - B. SMS
 - C. Both (A) and (B)
 - D. None of these
- 18) Predict the output
SELECT RIGHT(CONCAT('TECHNOLOGY','INFORMATION'),5);
- A. OLOGY
 - B. MATIO
 - C. ATION
 - D. None of these
- 19) On the Plan My Travel box on the _____ side of the page, enter the details, i.e. the start station, end station, date on which you want to travel.
- A. Right
 - B. Left
 - C. Top
 - D. Bottom
- 20) _____ is the National Portal of India, which provides a single window access to information and services being provided by the various Indian Government entities.
- A. India.com
 - B. india.gov.in
 - C. industries.gov.in
 - D. None of these
- 21) The FROM SQL clause is used to...
- A) specify what table we are selecting or deleting data FROM
 - B) specify range for search condition
 - C) specify search condition
 - D) None of these
- 22) What is the full form of DAR&PG?
- A. Delhi Administrative Reforms and Public Grievances
 - B. Department of Amendment Reforms and Public Grievances
 - C. Department of Administrative Reforms and Public Grievances
 - D. Department of Administrative Religious and Poor Grievances
- 23) _____ portal is a one-point source to access all Indian Government websites at all levels and from all sectors. It includes sites of different states and union territories of India, sites of government departments like judiciary and legislature.
- A. goirectory.nic.in
 - B. goirectory.com
 - C. goindia.nic.in3
 - D. goidirector.org.in
- 24) Which SQL keyword is used to retrieve a maximum value?
- A) TOP
 - B) MOST

- C) UPPER
D) MAX
- 25) Predict the output
SELECT MID('BoardExamination',2,4);
A. oard
B. ardE
C. redEx
D. None of these
- 26) What will be returned by the given sql statement?
SELECT TRUNCATE(15.79,-1)+TRUNCATE(15.79, 0)+ TRUNCATE(15.79,1);
A. 35.7
B. 45.7
C. 43.7
D. 40.7
- 27) Reeta is going to her aunt's house to spend her vacations. To book her rail tickets online she needs to create new account on the reservation portal. Which of the following is NOT a correct step to do the same?
a. Sign up on the reservation portal.
b. Fill the registration form.
c. The fields marked with a star (*) are optional.
d. Click the submit button after filling the form.
- 28) What will be returned by the following query?
SELECT CONCAT("I", "PLAY", "FOOTBALL");
A. "I PLAY FOOTBALL"
B. "IPLAY FOOTBALL"
C. "I PLAYFOOTBALL"
D. "IPLAYFOOTBALL"
- 29) What will be returned by the following sql statement?
SELECT ROUND(153.669,2) – TRUNCATE(153.669,2);
A. 0.05
B. 0.01
C. 0.00
D. None of these
- 30) Help Nisha to display the Name, Marks and Grade of all the students who have submitted the project.
I. Select * from Students where project='Submitted';
II. Select name, grade ,marks from students where project not in ('Evaluated', 'Pending');
III. Select Name, Grade, Marks from students where project ='Submitted';
IV. Select Name, Grade, Marks from students where project !='Submitted';
A. Only III
B. Both II and III
C. Both II and IV
D. Only I
- 31) Which command will be executed to display all the grades whose average marks is more than or equal to 25 ?
I. select Grade, avg(marks) from students group by grade having avg(marks)>=25;
II. select avg(marks),grade from students group by grade having avg(marks)>25 or avg(marks)=25;
III. select Grade, avg(marks) from students group by grade having avg(marks)>25;
IV select avg(marks),grade from students group by grade having avg(marks)=25;
A. Both I and II.
B. Both I and III.
C. Both II and IV
D. Only I.

SECTION-C

(COMPETENCY BASED QUESTIONS)

Answer any 5 questions out of the given 7 questions (1 x 5 = 5 marks)

- 32) Rajat is compiling a detailed list with a clear description of application features of his project and

recognizing the limitations that are placed on the project. Out of the given options choose the phase of the project in which Rajat is currently in:

- a. Requirements Definition Phase
- b. Testing Phase
- c. Implementation Phase
- d. Design Phase

33) Answer the questions based on the following table, EMPL:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	800	NULL	20
7499	ALLEN	SALESMA N	7698	1981-02-20	1600	300	30
7521	WARD	SALESMA N	7698	1981-02-22	1250	500	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000	0	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000	NULL	10
7876	ADAMS	CLERK	7788	1983-01-12	1250	NULL	20

Predict the output:

```
SELECT AVG(COMM) FROM EMPL;
```

- A. 266
- B. 266.67
- C. 267
- D. None of these

34) Consider the table EMPL given in Q33. Choose the correct option
SELECT SUM(DISTINCT SAL) FROM EMPL where comm is not null;

- A. 5850
- B. 7100
- C. 5900
- D. None of these

35) Consider the table EMPL given in Q33. Choose the correct option.

```
Select ucase(concat(ENAME, '*', MGR)) from EMPL where JOB like 'ANALYST';
```

- A. FORD*7566
- B. BLAKE*7839
- C. SCOTT*7566
- D. None of these

36) Consider the table EMPL given in Q33. Choose the correct option.

```
SELECT SUM(SAL), MAX(SAL) FROM EMPL GROUP BY DEPTNO;
```

- A. 8750.00 | 5000.00
10875.00 | 4000.00
9400.00 | 2850.00
- B. 7450.00 | 5000.00
5050.00 | 3000.00
5700.00 | 2850.00
- C. 8750.00 | 5000.00
10875.00 | 3000.00
9400.00 | 850.00

D. None of these

37) Consider the table EMPL given in Q33. Choose the correct option.

```
SELECT MAX(SAL)-MIN(SAL) FROM EMPL GROUP BY DEPTNO HAVING  
MAX(SAL)>4000;
```

A. 2700

B. 3500

C. 2550

D. None of these

38) Read the following statements carefully about E-governance

i. It is the use of electronic tools for governance.

ii. It has decreased the transparency in the system.

iii. E-governance empowers the citizens socially and economically.

iv. It enables citizens to access information after paying money.

Choose the correct option from the following:

a. Both i and ii are correct

b. Both ii and iii are correct

c. Both i and iii are correct

d. Only iv is correct

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SECTION-A

Answer any 5 questions out of the given 6 questions on Employability Skills (1 x 5 = 5 marks)

- 1) To manage oneself well, a person needs to develop the following.
 - A. Positive thinking
 - B. Result orientation
 - C. Self-awareness
 - D. All of these
- 2) Motivation is derived from the word
 - A. Motivated
 - B. Moving
 - C. Motive
 - D. None of these
- 3) Which of the following is/are the symptoms of stress?
 - A. Social isolation
 - B. Fatigue
 - C. Body aches
 - D. All of these
- 4) What will be displayed, if the following formula is entered in cell A1 in a spreadsheet application
 $= 6^2 + 15/3 * 2 - 7$
 - A. 39
 - B. 15
 - C. 14
 - D. 38
- 5) . _____ may distract the readers and may lead to misunderstanding.
 - A. Overwritings
 - B. Strikeovers
 - C. Wrong spellings
 - D. All of these
- 6) The contents of cell A1, A2, A3, and A4 in a Spreadsheet application are 20, 15, 30, 25 respectively. If the formula =SUM(A1:A4) is entered in cell A5, _____ value will be displayed in A5.
 - A. 70
 - B. 80
 - C. 90
 - D. 4

SECTION - B

Answer any 20 questions out of the given 25 questions (1 x 20 = 20 marks)

- 7) The _____ aspect of a business-to-consumer website involves transactional e-commerce for products or services.
 - A. Save

- B. Sell
- C. Serve
- D. Speak

- 8) Which SQL keyword is used to display the data based on certain pattern?
- A. LIKE
 - B. IN
 - C. BETWEEN
 - D. d. RANGE
- 9) Which of the following SQL commands is used to retrieve data?
- A. DELETE
 - B. INSERT
 - C. SELECT
 - D. JOIN
- 10) An electronic copy of your paid ticket is shown on the screen. Also, your ticket will be _____ that you have specified in the registration form.
- A. Email
 - B. SMS
 - C. Both (A) and (B)
 - D. None of these
- 11) Nisha wants to calculate the average marks grade wise, she has issued the following command but not getting the desired result. Help her by writing the correct command.
- A. Select Marks,Grade from students Group by Grade;
 - B. Select Average(Marks), Grade from Students Group By Grade;
 - C. Select Avg(Marks), Grade from Students Group By Marks.
 - D. D. Select Avg(Marks), Grade from students Group By Grade;
- 12) The now() function in MySql is an example of ?
- A. Math function
 - B. Text function
 - C. Date Function
 - D. d. Aggregate Function
- 13) Sagun is creating a table SALESMAN with fields Salesman number, Name, Total Sales. She doesn't want the Total Sales column to be remain unfilled i.e. she wants to make entry in this field mandatory. Which constraint she should use at the time of creating SALESMAN table:
- A. Check
 - B. Default
 - C. Not null
 - D. d. Primary key
- 14) _____ command which displays list of databases available on the current server.
- A. Show databases
 - B. Show tables
 - C. Create tables
 - D. Display table
- 15) Which of the following is not a valid SQL type?
- A. DECIMAL
 - B. NUMERIC
 - C. FLOAT
 - D. CHARACTER
- 16) The pen-paper method of quiz is
- A. Time consuming
 - B. Less flexible
 - C. Involves lot of human effort

D. All of these

- 17) A _____ mark depicts non availability of seat for that category in the specific train.
- A. x
 - B. +
 - C. -
 - D. /
- 18) Rajeshwari wants to delete the records where name starts with K from the table CUSTOMER having fields Name, Amount, Discount. Identify the correct command:
- A. Delete CUSTOMER where name like "K%";
 - B. Delete from CUSTOMER where name like "K%";
 - C. Delete CUSTOMER where name = "K%";
 - D. d. Delete from CUSTOMER where name = "K%";
- 19) It establishes the _____ between the Front-End interface and Back-End Database.
- A. Data Connectivity
 - B. Data Storage
 - C. Data change
 - D. None of these
- 20) The command used to delete a particular column in a relation is _____
- A. UPDATE TABLE
 - B. TRUNCATE COLUMN
 - C. ALTER , DROP
 - D. DELETE COLUMN
- 21) Which of the following is a comparison operator in SQL?
- A. Double equal sign (= =)
 - B. LIKE
 - C. BETWEEN
 - D. Single equal sign (=)
- 22) DEITY stands for:
- A. Department of Electrical and Information Technology
 - B. Department of Electronics and Information Technology
 - C. Department of Electronics and Informatics Technology
 - D. d. Department of Electrical and Informatics Technology
- 23) _____ are real time lectures, where users participate, may ask questions, and get their queries answered.
- A. Interactive tutorials
 - B. Video tutorials
 - C. Power Point Presentation
 - D. d. Webinars
- 24) Which of the following is a legal expression in SQL?
- A. SELECT NULL FROM SALES;
 - B. SELECT NAME FROM SALES;
 - C. SELECT * FROM SALES WHEN PRICE = NULL;
 - D. SELECT # FROM SALES;
- 25) The COUNT function in SQL returns the number of _____
- A. Values
 - B. Distinct values
 - C. Group By
 - D. Columns

- 26) The virtual table that is created by data from the result of an SQL 'Select' statement is called _____.
- View
 - Synonym
 - Sequence
 - Transaction
- 27) _____ is a popular word game.
- Gangman
 - Hangman
 - Robo
 - Chin
- 28) Which statement in SQL allows us to change the definition of a table is?
- ALTER
 - UPDATE
 - CREATE
 - SELECT
- 29) How can you change "Thomas" into "Michel" in the "LastName" column in the Users table?
- UPDATE User SET LastName = 'Thomas' INTO LastName = 'Michel'
 - MODIFY Users SET LastName = 'Michel' WHERE LastName = 'Thomas'
 - MODIFY Users SET LastName = 'Thomas' INTO LastName = 'Michel'
 - UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas'
- 30) SQL Views are also known as
- Simple tables
 - Virtual tables
 - Complex tables
 - Actual Tables
- 31) The _____ command is used to modify the structure of the table STUDENT in MySQL.
- Modify table STUDENT
 - Alter table STUDENT
 - Alter STUDENT
 - d. Modify STUDENT

SECTION-C

(COMPETENCY BASED QUESTIONS)

Answer any 5 questions out of the given 7 questions (1 x 5 = 5 marks)

- 32) In Design Phase the focus is on _____ the application is to be designed.
- Where
 - How
 - What
 - When
- 33) Consider the table:

CUSTOMER

```
mysql> SELECT * FROM CUSTOMER;
```

CNO	CNAME	CITY
C1	SANYAM	DELHI
C2	SHRUTI	DELHI
C3	ADITYA	MUMBAI
C4	ADITEE	CHENNAI
C5	GARIMA	INDORE
C6	ANISHA	DELHI
C7	PRASHANT	BANGALORE
C8	KUSHAL	MUMBAI

CITY

```
mysql> SELECT * FROM PURCHASE;
```

SNO	QTY	PDATE	CNO
S1	15	2018-12-25	C2
S2	10	2018-11-10	C1
S3	12	2018-11-10	C4
S4	7	2019-01-12	C7
S5	11	2019-02-12	C2
S6	10	2018-10-12	C6
S7	5	2019-05-09	C8
S8	20	2019-05-09	C3
S9	15	2018-11-12	C5

To display the number of CUSTOMER along with their respective CITY in each of the city.

- A. SELECT COUNT(*), CITY FROM CUSTOMER ORDER BY CITY;
- B. SELECT COUNT(*), CITY FROM CUSTOMER GROUP BY CITIES;
- C. SELECT COUNT(DISTINCT CITY), CITY FROM CUSTOMER GROUP BY CITY;
- D. SELECT COUNT(*), CITY FROM CUSTOMER GROUP BY CITY;

34) Consider the table CUSTOMER given in Q33. Choose the correct option to display the CNAME and CITY of all CUSTOMER in ascending order of their CNAME.

- A. SELECT CNAME, CITY FROM CUSTOMER ORDER BY CNAME;
- B. SELECT CNAME, CITY FROM CUSTOMER ORDER BY CNAME DESC
- C. SELECT CNAME, CITY FROM CUSTOMER ORDER BY CNAME ASCENDING
- D. SELECT CNAME, CITY FROM CUSTOMER ORDER BY CNAME DESCENDING;

35) Consider the table CUSTOMER AND PURCHASE given in Q33. Choose the correct option TO SELECT CNAME, QTY, PDATE FROM CUSTOMER, PURCHASE WHERE CUSTOMER.CNO=PURCHASE.CNO AND QTY IN (10,20);

A. CNAME | QTY | PDATE |
 +-----+-----+-----+
SHRUTI	15	2018-11-10
PRASHANT	7	2019-01-12
ADITYA	20	2019-05-09

B. CNAME | QTY | PDATE |
 +-----+-----+-----+
KUSHAL	5	2019-05-09
ANISHA	10	2018-10-12
ADITYA	20	2019-05-09

C. CNAME | QTY | PDATE |
 +-----+-----+-----+
 | GARIMA | 15 | 2018-11-12 |
 | ANISHA | 10 | 2018-10-12 |
 | SHRUTI | 15 | 2018-12-25

D. CNAME | QTY | PDATE |
 +-----+-----+-----+
SANYAM	10	2018-11-10
ANISHA	10	2018-10-12
ADITYA	20	2019-05-09

36) Consider the table CUSTOMER given in Q33. Choose the correct option to display details of all customer whose city are neither Delhi nor Mumbai.

- A) SELECT * FROM CUSTOMER WHERE CITY IN ('DELHI', 'MUMBAI');
- B) SELECT * FROM CUSTOMER WHERE CITY NOT ('DELHI', 'MUMBAI');

- C) `SELECT * FROM CUSTOMER WHERE CITY NOT IN ('DELHI', 'MUMBAI');`
 - D) `SELECT * FROM CUSTOMER WHERE CITY ('DELHI', 'MUMBAI');`
- 37) Consider the table CUSTOMER given in Q33. Choose the correct option To display details of all purchases whose quantity is more than 15.
- A) `SELECT * FROM PURCHASE WHERE QTY >= 15;`
 - B) `SELECT * FROM PURCHASE WHERE QTY > 15;`
 - C) `SELECT * FROM PURCHASE WHERE QTY < 15;`
 - D) `SELECT * FROM PURCHASE WHERE QTY <= 15;`
- 38) Which of the following is not an example of E-Governance?
- A. To file property tax
 - B. To apply for renewal of Passport
 - C. To start an online coding course for 3 months
 - D. To get Voters ID card issued